

CLAIMS

What is claimed is:

1. A method comprising:
receiving a block of transform domain coefficients and corresponding error flags;
estimating an initial value for each erroneous coefficient;
decoding pixel values of the block, using the initial values of the coefficients where there are errors;
updating the value for each erroneous coefficient; and
updating pixel values of the block using the updated values of the coefficients.

2. The method of claim 1, wherein estimating an initial value further comprises estimating the expected value of each erroneous coefficient.

3. The method of claim 1, wherein decoding pixel value further comprises applying the transform domain coefficients to a transform.

4. The method of claim 1, wherein updating the value for each erroneous coefficient further comprises minimizing a least squares equation.

5. The method of claim 1 further comprising:
displaying the updated pixel values.

6. An apparatus comprising:

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1 8. The apparatus of claim 6, wherein said means for decoding pixel values
2 further comprises means for applying the transform domain coefficients to a
3 transform.

1 9. The apparatus of claim 6, wherein said means for updating the value of each
2 erroneous coefficient further comprises means for minimizing a least squares
3 equation.

1 10. The apparatus of claim 6 further comprising:
2 means for displaying the updated pixel values.

1 11. A computer readable medium having instructions which, when executed by
2 a processing system, cause the system to:
3 receive a block of transform domain coefficients and corresponding error
4 flags;
5 estimate an initial value for each erroneous coefficient;
6 decode pixel values of the block using the initial values of the coefficients
7 where there are errors;
8 update the value for each erroneous coefficient; and
9 update pixel values of the block using the updated values of the coefficients.

1 12. The medium of claim 11, wherein the executed instructions further cause the
2 system to:
3 estimate the initial value by estimating the expected value of each erroneous
4 coefficient.

1 13. The medium of claim 11, wherein the executed instructions further cause the
2 system to:
3 decode pixel values by applying the transform domain coefficients to a
4 transform.

1 14. The medium of claim 11, wherein the executed instructions further cause the
2 system to:
3 update the value for each erroneous coefficient by minimizing a least squares
4 equation.

1 15. The medium of claim 11 wherein the executed instructions further cause the
2 system to:
3 display the updated pixel values.